HEYER AEROTECH

Medizinische Gasversorgungssysteme

TÜV CERT
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EN 46001

Operating Instructions

Anaesthetic Gas Evacuation System

AGFS

1. Manufacturer's information 3

2. Foreword 4

3. Function and mode of operation 5

4. Assembly dimensions and parts specification 6

4.1 Front view with front plate 6

4.2 Front view without front plate 7

4.3 Side view 7

4.4 Hose plan 9

5. Technical data 11

6. List of spare parts 12

7. Warranty 13

1. Manufacturer's information

Product

Anaesthetic Gas Evacuation System AGFS

Manufacturer and Distributor

HEYER AEROTECH
Medizinische Gasversorgungssysteme

Heyer Aerotech GmbH
Nieverner Straße 30
56132 Nievern
Tel.: (0 26 03) 20 04
Fax.: (0 26 03) 40 20
E-Mail: office@heyer-aerotech.de

2. Foreword

Dear customer!

Thank you for choosing a HEYER Aerotech product! HEYER Aerotech products represent state-of-the-art technology and are manufactured according to the highest quality standards. You have chosen a professional, durable, easy-to-maintain product, the result of many years of experience and know-how from a competitive supplier of medical technology.

The anaesthetic gas evacuation system AGFS is in accordance with all standards and specifications that currently apply to the production and operation of this product.

In the unlikely event of malfunction please contact our Customer Service. For details refer to page 3 of these Operating Instructions.

Before using the unit, please read these Operating Instructions carefully and particularly observe the warnings.

3. Function and mode of operation

Whenever anaesthesia is carried out in half-closed or half-open systems, excess anaesthetic gas escapes through the pressure control valve of the circulation system and is inhaled by users and staff. This is avoided by installing an anaesthetic gas evacuation system.

The anaesthetic gas evacuation system AGFS is installed in the vicinity of the anaesthesia working area. A transvector integrated in the AGFS generates the required underpressure. The suction power is adjusted separately on every evacuation box to a standard value of 45-50 l/min, but it can be tailored to the customer's needs.

The anaesthetic gas evacuation system is started up by connecting the anaesthetic gas suction plug, supplying the transvector with driving air (5 bar). The underpresssure generated by the transvector is indicated by the green colour of the visual signal.
The anaesthetic gas drawn off, including the driving air of the transvector, is passed into the open air through a separate pipe or duct.

When the plug is disconnected the driving gas inflow to the transvector is interrupted, which ceases to generate a low pressure, and the visual signal turns white. Simultaneously the integrated safety valve closes and prevents the anaesthetic gas in the exhaust pipe from flowing back.

4. Assembly dimensions and parts specification

4.1 Front view with front plate

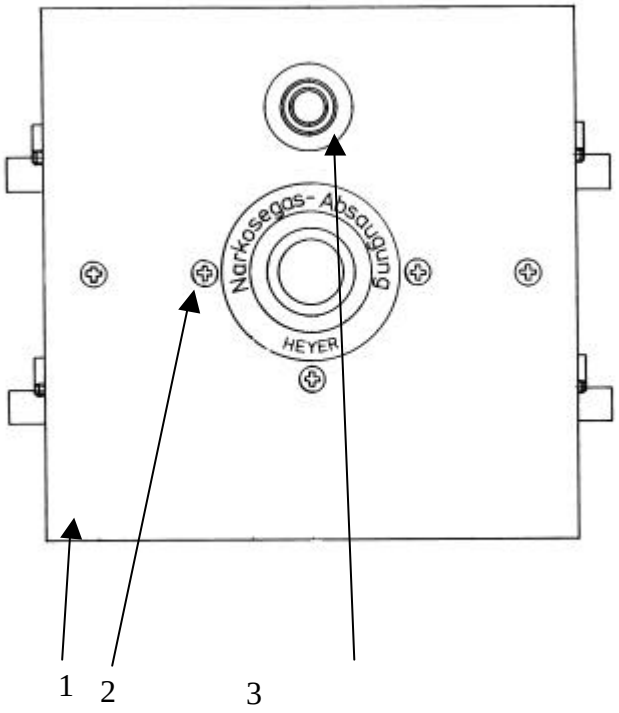

Fig. 1 Front view with front plate

Legend:

1	Front plate	3	Visual signal
2	Connection AGFS gas suction plug		

4.2 Front view without front plate

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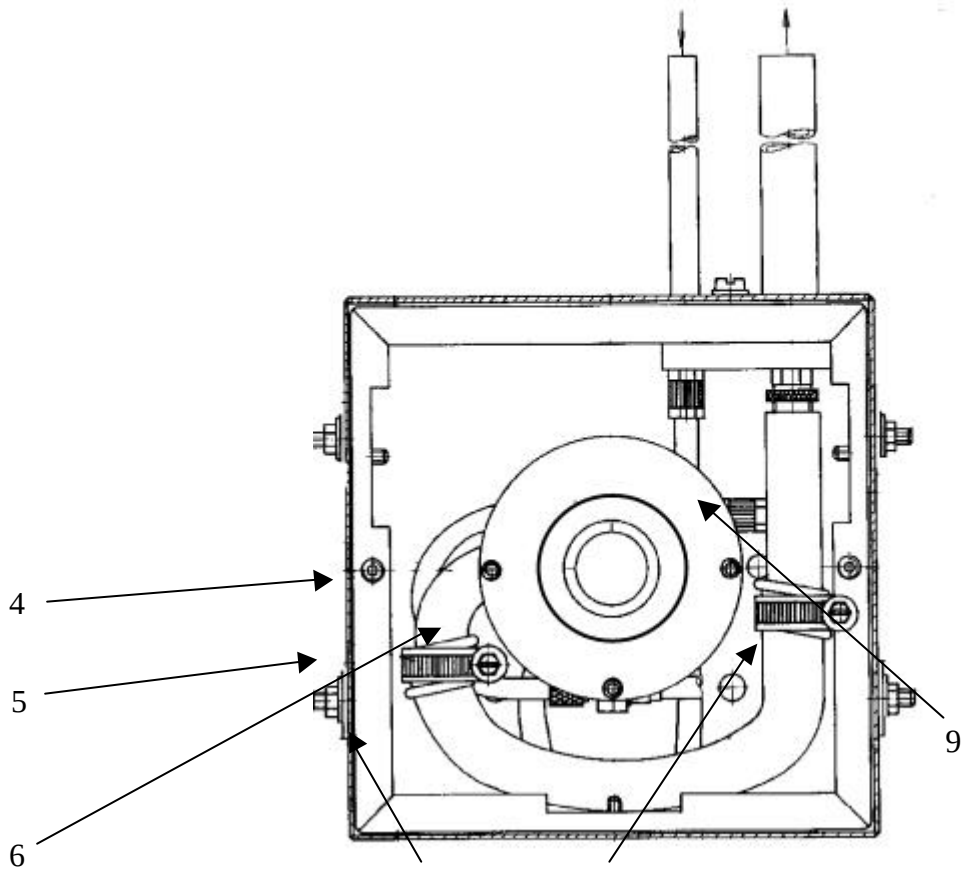

Fig. 2 Front view without front plate

Legend:

4	Bend 15 5001A	7	VACUFLEX hose
5	Hose clip	8	Flush socket AGFS
6	Connection AGFS suction plug	9	Transvector complete

⚠	**Ensure that no foreign substance can enter the open connections.**

4.3 Side view

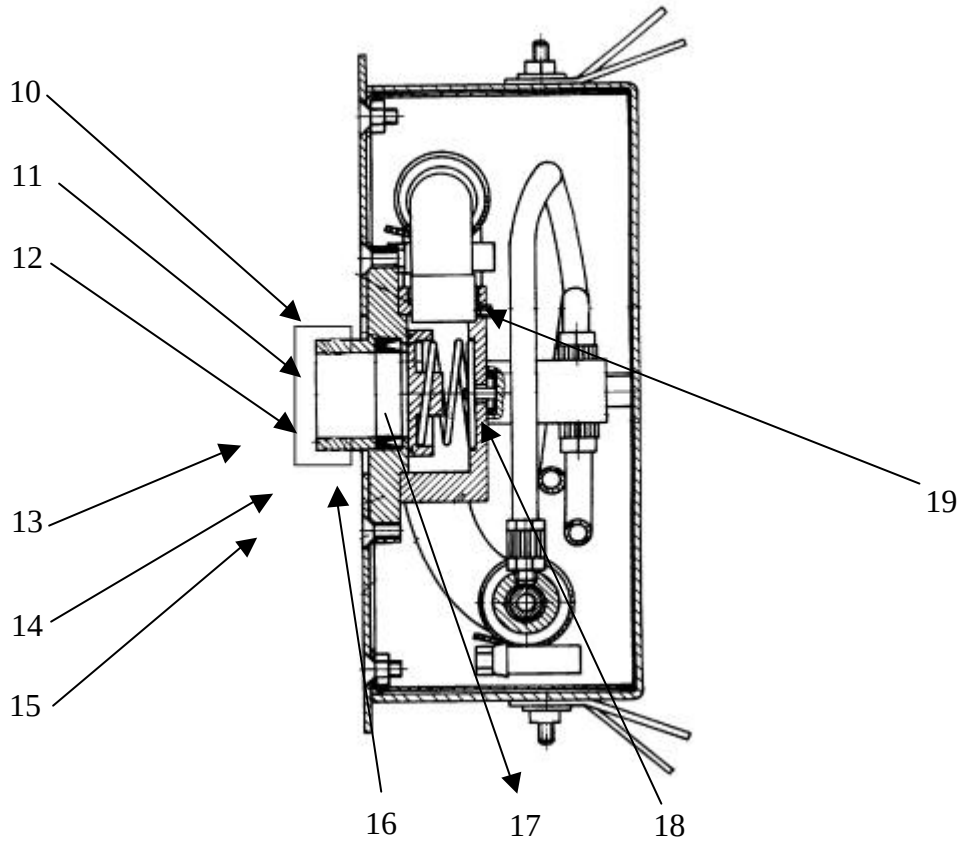

Fig. 3 Side view

Legend:

10	O-ring 14 x 1
11	Valve disk
12	Spring for valve disk
13	O-ring
14	AGFS, upper part
15	Flat head screw
16	Valve housing AGFS
17	Seat valve
18	O-ring 7 x 1,5
19	Headless pin

4.4 Hose plan

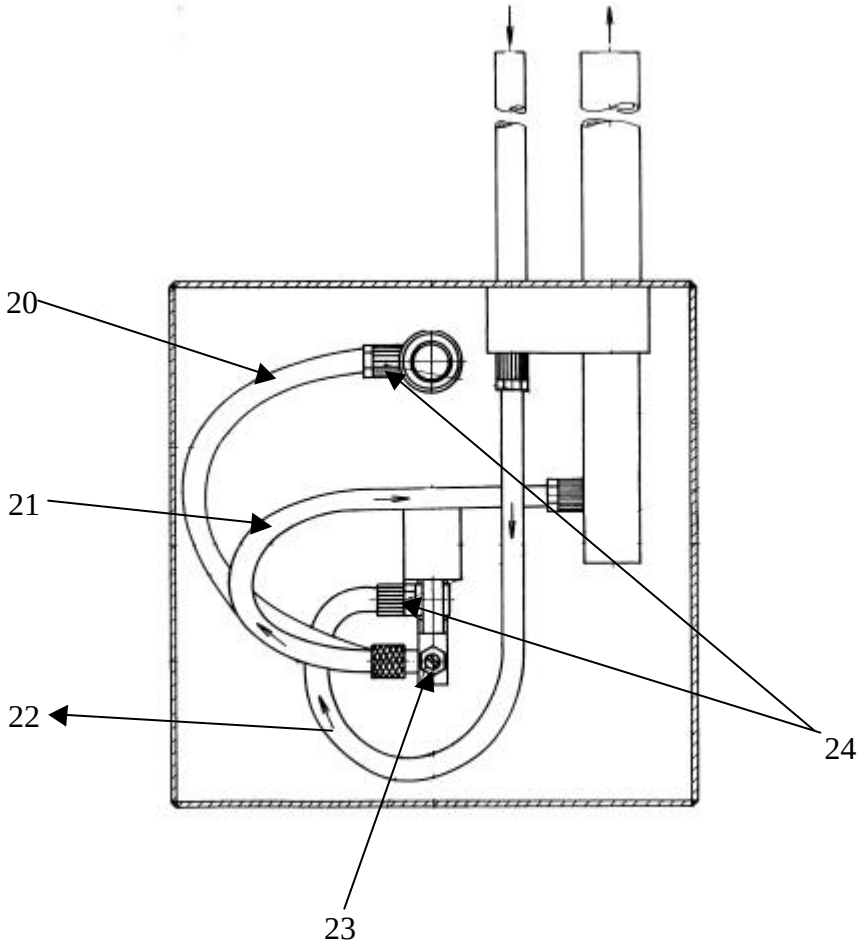

Fig. 4 View of hose plan

Legend:

20	PE hose 150 mm	23	Choke valve
21	PE hose 150 mm	24	Swing fixture
22	PE hose 240 mm		

5. Technical data

Performance:

Suction power: 45-50 l/min
Air consumption: 40-60 l/min maximum
Suction volume: 80 l/min maximum

Connections:

Compressed air: Copper pipe 8 x 1 mm
Exhaust air: Copper pipe 15 x 1 mm

Operating pressure:

5 bar

Dimensions:

Front plate: 160 x 160 mm
Flush socket: 150 x 150 x 60 mm
Plaster equalisation: stepless up to approx. 20 mm

CE 0044

6. List of spare parts

Pos.	Order number	Description
1	**117-1955**	Front plate AGFS
2	---	Connection AGFS plug
3	**117-1440**	Green visual signal
4	**131-1810**	Bend 15 5001A
5	**046-4080**	Hose clip
6	**047-4102**	Cap screw (Allen)
7	**006-3900**	VACUFLEX hose
8	**117-1600**	Flush socket AGFS
9	**117-2010**	Transvector complete
10	**049-3102**	O-ring 14 x 1
11	**117-1370**	Valve disk
12	**117-1200**	Spring for valve disk
13	**117-1360**	Ball ∅ 4
14	**117-1300**	Lip seal gasket
15	**117-1150**	AGFS, upper part
16	**047-3606**	Flat head screw
17	**117-1155**	Valve housing AGFS
18	**117-1165**	Seat valve
19	**049-3081**	O-Ring 7 x 1,5
20	**047-4172**	Headless pin
21	**017-1550**	PE hose 150 mm
22	**017-1550**	PE hose150 mm
23	**017-1550**	PE hose 240 mm
24	**017-3091**	Choke valve
25	**017-3076**	Swing fixture
not shown	**017-3095**	T-piece Kuhnke
not shown	**017-3100**	Spacer
not shown	**047-3622**	Flat head screw

7. Warranty

Warranty for the HEYER Aerotech anaesthetic gas evacuation system AGFS is twelve (12) months from the date of purchase, according to the following conditions:

1. Within the guarantee period we will remedy free of charge any product which proves to be defective or non-conforming in materials or workmanship, if we are notified without delay as soon as the defect or non-conformity is detected. The warranty does not extend to fragile parts, such as glass, or perishable parts and consumables.
2. In the case of warranty we will at our discretion repair or replace the product. Neither does such claim cause the guarantee period to be extended, nor will a new guarantee be started. There will be no independent guarantee period for any spare parts installed.
3. This warranty does not apply to defects arising out of improper or inexpert treatment, faulty operation, mechanical damage or disregard of our Operating Instructions, as well as any such damage caused by acts of God or exceptional environmental conditions.
4. These guarantee conditions are invalidated in the case of third-party intervention, modification and/or repair of the product by persons not authorised by HEYER Aerotech, or if the product is operated with auxiliary equipment or spare parts of from another source.

Any and all further claims as well as so-called incidental or consequential damages are excluded, insofar as not otherwise compelling stated by law.

Subject to technical changes!

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